**Chapter 11 Review A** SCORE \_\_\_\_\_\_\_\_\_

**Write the correct letter for the correct answer in the blank at the right of each question.**

**For Exercises 1 and 2 use the following set of data:**

**2, 3, 3, 4, 5, 7, 8, 8, 8, 10, 10, and 12.**

**1.** What are the third and first quartiles of the data?

**A.** 12, 2 **B.** 8, 4.5 **C.** 10, 3 **D.** 9, 3.5

**2.** What is the interquartile range of the data?

**F.** 10 **H.** 7

**G.** 7.5 **I.** 5.5

**3.** The table shows the number of movies owned by a group of surveyed people.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number of Movies** | | | | | |
| 11 | 31 | 17 | 22 | 18 | 25 |
| 25 | 10 | 15 | 12 | 30 | 12 |
| 29 | 25 | 21 | 32 | 30 | 25 |

What is the median of movies owned?

**A.** 21.5 **C.** 23.5

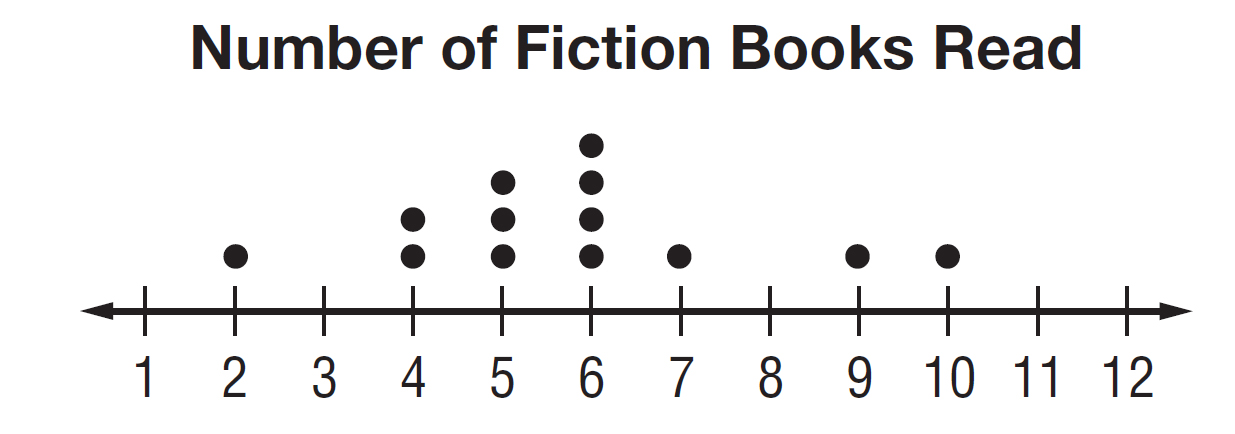
**B.** 22 **D.** 25

**4.** What is the mean absolute deviation of the data: 10, 17, 20, 12, and 16?   
Round to the nearest whole number.

**F.** 15 **H.** 3

**G.** 5 **I.** 2

**For Exercises 5-7, use the dot plot below.**



**5.** What is the mean of the data? Round to the nearest tenth.

**A.** 5.7 **B.** 5.2 **C.** 5 **D.** 4.5

**6.** What is the median of the data?

**F.** 10 **G.** 9 **H.** 6 **I.** 3

**7.** What is the mode of the data?

**A.** 3 **B.** 6 **C.** 8 **D.** 10

**1.\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_**

**4. \_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_**

**6. \_\_\_\_\_\_\_\_\_\_\_**

**7. \_\_\_\_\_\_\_\_\_\_\_**

**Chapter 11 Review A** *(continued)* SCORE \_\_\_\_\_\_\_\_\_

**For Exercises 8-10, which measure of center best represents each set of data?**

**8.** number of television sets in the home: 4, 4, 2, 4, 4, 1, 3, 4, 2, 4

**F.** mean **G.** median **H.** mode **I.** range

**9.** goals scored during hockey season: 7, 6, 9, 3, 12, 7, 2, 10, 7, 8

**A.** mean **B.** median **C.** mode **D.** range

**10.** prices of earrings: $4, $30, $10, $12, $10, $20, $12, $10

**F.** mean **G.** median **H.** mode **I.** range

**11.** Find the mean absolute deviation of the data set 8, 8, 10, 15, 9, 20, 12, and 10. Round to the nearest hundredth if necessary.

**A.** 0.52 **C.** 3.5

**B.** 3.13 **D.** 11.5

**12.** The results of a survey about the number of contacts stored in cell phones is shown in the table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number of Contacts** | | | | | |
| 100 | 31 | 45 | 85 | 98 | 29 |
| 75 | 62 | 78 | 50 | 72 | 84 |
| 50 | 40 | 83 | 88 | 44 | 94 |

What is the first quartile of the data?

**F.** 40 **H.** 45

**G.** 44.5 **I.** 85

**13.** Jamie mowed 7 lawns. He earned $10, $15, $12, $15, $8, and $15 for six lawns. How much did he earn the seventh time if the mean of the data is $12?

**A.** $9 **C.** $12

**B.** $10 **D.** $15

**8.\_\_\_\_\_\_\_\_\_\_\_**

**9. \_\_\_\_\_\_\_\_\_\_\_**

**10. \_\_\_\_\_\_\_\_\_\_\_**

**11. \_\_\_\_\_\_\_\_\_\_\_**

**12. \_\_\_\_\_\_\_\_\_\_\_**

**13. \_\_\_\_\_\_\_\_\_\_\_**